

SELF-EXCITED DC-TO-DC CONVERTER AND POWER SUPPLY DEVICE THEREFOR

Publication number: JP2000004579

Publication date: 2000-01-07

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Classification:

- International: *H02M3/155; H02M3/156; H02M3/04; (IPC1-7): H02M3/155*

- european: H02M3/156B

Application number: JP19980165530 19980612

Priority number(s): IR19980165530 19980612

Also published as:



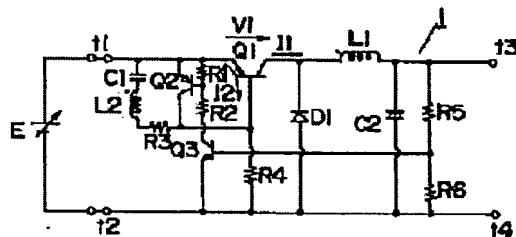
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Abstract of JP2000004579

PROBLEM TO BE SOLVED: To provide a small-sized and low-loss self-excited DC/DC converter and its power supply device which can be used, even when the voltage fluctuation of an input power supply is large. **SOLUTION:** A series circuit consisting of a PNP transistor Q1, a primary winding L1 and a capacitor C2 is connected between input terminals t1 and t2. A diode D1 is connected in parallel with the primary winding L1 and the capacitor C2. A feedback winding L2 is coupled magnetically with the primary winding L1 and connected between the base and the emitter of the transistor Q1 via a capacitor C1 and a resistor R3. The emitter and the collector of a PNP transistor Q2 are connected to the emitter and the base of the transistor Q1 respectively, to bypass a part of the base current of the transistor Q1. The bypassed current value is changed, in accordance with the output voltage of the transistor Q2 to control the turning on/off of the transistor Q1 so as to control the output voltage to be constant.



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